# XMI OUICK REFERENCE

This Quick Reference lists the XML-enabled tags that the Monarch® 9825®, 9855® or 9860™ printers can interpret.

Your printer has one of the following options:

- Oracle® WMS (Warehouse Management) print jobs
- ◆ SAP NetWeaver® Auto-ID (RFID) Infrastructure (AII-DC-RFID)

The following table lists the software versions that support the XML options.

XML Options	9825	9855	9860
Oracle® WMS (Warehouse Management) print jobs	2.8	5.0	5.0
SAP NetWeaver® Auto-ID (RFID)	2.8	5.3	5.3

### About This Ouick Reference

This Quick Reference contains

- information that applies to both XML-enabled options, including "Defining the Format Header," "Using Option 21 (Define Extended Field Names)," and "Error Messages."
- specific information for each option. See the following sections as necessary based on your printer.
- a sample label format.

**Note:** This *Quick Reference* does not contain information about installing or setting up the printer for use on a network running Oracle® software or the SAP NetWeaver® platform.

Information in this document supercedes information in previous versions. Check our Web site (www.paxar.com) for the latest documentation and release information.

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# Defining the Format Header

F6.

F7. F8.

Use this section with either XML-enabled option. A Format Header begins a format file.

## 

F1. <i>F</i>	Format Header.
F2. format#	Number from 1-999 to identify the format.
F3. action	Enter A to add a new format to the printer.
F4. device	Format storage device. Use <b>F</b> (Flash).
F5. measure	Unit of measure: <b>E</b> (English), <b>M</b> (Metric), or <b>G</b> (Graphic Dots).

Printer	Unit of Measure	Length	Width		
9855/9860	English (1/100 inch) Metric (1/10 mm) 203 dpi Dots	75-1600 191-4064 152-3248	32-400 81-1016 62-812		
	Refer to the optional <i>Packet Reference Manual</i> for more information.				
length	Length in selected units. Measure supply from the leading edge of one label to the leading edge of the next label. The leading edge is the edge that exits the printer first.				
width	Width, from left to right, in selected units.				
"name"	Format name, <b>1-256</b> characters, enclose within quotation marks. The name can contain special characters, excluding non-printable control characters and the quotation mark (").				

## Example {F,1,A,F,E,300,200,"XML\_FORMAT\_ONE" |

Defines the name for format 1 as XML\_FORMAT\_ONE.

## Using Option 21 (Define Extended Field Names)

Use this section with either XML-enabled option. Option 21 defines names for each field in a format, which can be longer than eight characters.

#### Syntax R,21,"field\_name";

R1. R Option Header.

R2. 21 Option 21.

R3. field\_name Specifies the field name. Must be enclosed within

quotations. The name can be up to 256 characters, excluding non-printable control characters and the quotation mark ("). This name must match the one specified in the *variable name* or *Field name* attribute.

Defines the name for text field 2 as "SALEPRICE FIELD."

## Error Messages

Use this section with either XML-enabled option. You may receive this error when using XML supported tags.

The Format Name must be between 1 to 8 characters inside quotes. Extended Format Names and Option 21 names can be between 1 and 256 characters excluding non-printable control characters and the quotation mark (").

## About Oracle WMS Print Jobs

The XML-enabled printer contains the following 10 Oracle® Warehouse Management print jobs (label formats):

- ◆ LPN Label
- ♦ LPN Summary Label
- ♦ Serial Label
- Shipping Label
- ♦ WIP Content Label

- ◆ LPN Content Label
- Material Label
- Location Label
- ♦ Shipping Content Label
- Flow Content Label

Refer to your Oracle® Integration Certification Document – Oracle Warehouse Management Label Printing Integration Kit for information about the format layout and descriptions of each field on the formats.

When you turn on the printer, you see

WMS XML Mode Ready

Syntax

When you print test labels, the model number appears as M9855X, for example.

## Supported Tags - Oracle WMS Print Jobs

<labels attributes="values">

There are three supported XML tags for Oracle Warehouse Management print jobs. The printer ignores any other XML tags/attributes not defined in this document and no error is reported.

<i>Symux</i>	<pre><labels <="" <label="" <variable="" attri="" label="" na=""> </labels></pre>	.butes="valu	
	labels	This tag contains one or more labels, which may include one or more of the following attributes:	
		_FORMAT	The default name of the format. This name must match the one specified in the Format Header.
		_QUANTITY	Quantity to print. 1 is the default.
	label	This tag contains a single label, which may incluone or more of the following attributes:	
		_FORMAT	The default name of the format. This name must match the one specified in the Format Header. If no format name is given, then the default format name from the labels tag _FORMAT attribute is

QUANTITY

name

used.

Quantity to print. If no quantity is specified, then the default quantity from the labels tag OUANTITY attribute is used.

This tag specifies the field name and the variable field data. It must contain the following attribute:

> The name of the field that matches the ones specified using Option 21. It must contain the variable data (batch data) associated with the format.

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variable

#### Sample MPCL Format

```
{F,1,A,F,E,400,400,"XML_FORMAT_ONE" |
T,1,25,V,20,20,0,1,1,1,B,L,0,0|
R,21,"TEXT_FIELD_XML"|
B,2,30,V,100,20,8,8,75,0,L,0|
R,21,"CODE 128 BARCODE FIELD XML"|}
```

#### This MPCL format uses:

- ♦ format XML\_FORMAT\_ONE
- ◆ text field TEXT\_FIELD\_XML
- ◆ bar code field CODE\_128\_BARCODE\_FIELD\_XML.

#### Sample XML Print Job

```
<?xml version="1.0" encoding="UTF-8"
standalone="no"?>
<!DOCTYPE labels SYSTEM "label.dtd">
<labels _FORMAT ="XML_FORMAT_ONE" _QUANTITY="1">
<label>
<variable name= "TEXT_FIELD_XML">XML Test
Label</variable>
<variable name=
"CODE_128_BARCODE_FIELD_XML">Code128data</variable>
</label>
</label>
</label>
</label>
```

### This XML print job uses:

- ◆ format XML\_FORMAT\_ONE
- ◆ text field TEXT\_FIELD\_XML with data XML Test Label
- ◆ bar code field CODE\_128\_BARCODE\_FIELD\_XML with data Code128data.

## About the SAP NetWeaver® Auto-ID Infrastructure

The XML-enabled printer is designed for use with the SAP NetWeaver® platform and the Auto-ID Infrastructure component (AII-DC-RFID).

When you turn on the printer, you see

SAP XML Mode Ready

When you print test labels, the model number appears as **M9855X**, for example.

## Supported Tags - SAP Auto-ID Infrastructure

There are five supported XML tags for the SAP NetWeaver Auto-ID Infrastructure. The printer ignores any other XML tags/attributes not defined in this document and no error is reported.

```
Syntax
           <Command>
            <WriteTagData attributes="values">
            <Item>
            <FieldList attributes="values">
             <Field attributes="values">
             </Field>
             </FieldList>
             </Item>
             </WriteTagData>
             </Command>
             Command
                            This tag contains one or more WriteTagData tags.
                            There are no attributes required. The xmlns:xis
                            attribute is ignored.
             WriteTagData
                            This tag contains one or more Item tags. There are
                            no attributes required. The readerID attribute is
                            ignored.
                            This tag contains one FieldList tag or multiple TagID
            Item
                            tags. There are no attributes required. The TagID
                            tag is ignored.
```

FieldList

This tag contains one or more Field tags, which may

include one or more of the following attributes:

The default name of the format. This name must match the one specified in

the Format Header.

This attribute is required.

jobname This attribute is ignored.

quantity Quantity to print. 1 is the default.

This attribute is optional.

Field

This tag specifies the field name and the variable field data. It must contain the following attribute:

name

format

The name of the field that matches the ones specified using Option 21. It must contain the variable data (batch data)

associated with the format.

Note: The SAP software sends RFID data in a field named "EPC". Apply Option 21 to the RFID Data Field and name that field "EPC".

#### Sample MPCL Format

```
{F,1,A,F,E,600,400,"EPC FORMAT 3" |
C,560,10,0,1,1,1,0,L,0,0,"DOCUMENT_NO:"
T,1,40,V,560,140,0,1,1,1,0,L,0,0
R,21,"DOCUMENT_NO" |
C,520,10,0,1,1,1,0,L,0,0,"DOCUMENT TYPE:" |
T,2,40,V,520,150,0,1,1,1,0,L,0,0
R,21, "DOCUMENT TYPE" |
C,480,10,0,1,1,1,0,L,0,0,"EPC TYPE:" |
T,3,40,V,480,110,0,1,1,1,0,L,0,0
R,21,"EPC TYPE"
C,440,10,0,1,1,1,0,L,0,0,"EPC URN:"
T,4,60,V,420,20,0,1,1,1,0,L,0,0
R,21,"EPC_URN" |
C,380,10,0,1,1,1,0,L,0,0,"EPC_URN_NO_HEADER:"
T,5,40,V,380,180,0,1,1,1,0,L,0,0
R,21, "EPC URN NO HEADER" |
C,340,10,0,1,1,1,0,L,0,0,"GTIN:"
T,6,40,V,340,80,0,1,1,1,0,L,0,0
R,21, "GTIN" |
C,300,10,0,1,1,1,0,L,0,0,"PRODUCT:"
T,7,40,V,300,100,0,1,1,1,0,L,0,0
R,21,"PRODUCT"
C,260,10,0,1,1,1,0,L,0,0,"PRODUCT DESCRIP:"
T,8,40,V,260,160,0,1,1,1,0,L,0,0
R,21, "PRODUCT DESCRIPTION" |
x,99,24
R,21,"EPC" | }
```

#### This MPCL format uses:

- ◆ format EPC\_FORMAT\_3
- ◆ text field DOCUMENT\_NO
- ◆ text field DOCUMENT\_TYPE
- ◆ text field EPC TYPE
- ◆ text field EPC\_URN
- ◆ text field EPC\_URN\_NO\_HEADER
- ◆ text field GTIN
- ◆ text field PRODUCT
- ◆ text field PRODUCT\_DESCRIPTION
- ◆ RFID data field **EPC** (line beginning with X).

#### Sample XML Print Job

```
<?xml version="1.0" encoding="UTF-8" ?>
 <Command xmlns:xsi="http://www.w3.org/2001/XMLSchema-</pre>
instance xsi:noNamespaceSchemaLocation="Command.xsd">
 <WriteTagData readerID="ICC HTTP DEVICE">
 <Item>
 <FieldList format="EPC FORMAT 3"
jobName="WRITE20051215190125" quantity="1">
  <Field name="DOCUMENT NO">Nov 29 02</field>
  <Field name="DOCUMENT TYPE">51</Field>
  <Field name="EPC">3074024220403140000001C</field>
  <Field name="EPC TYPE">SGTIN-96</Field>
  <Field name="EPC URN">urn:epc:tag:sgtin-
96:3.0037000.065733.28</Field>
  <Field name="EPC URN NO HEADER">3.0037000.065733.28</field>
  <Field name="GTIN">00037000657330</Field>
  <Field name="PRODUCT">RFID MAT1</Field>
  <Field name="PRODUCT DESCRIPTION">RFID Material 1</field>
  </FieldList>
  </Item>
  </WriteTagData>
  </Command>
```

#### This XML print job uses:

- ♦ format EPC\_FORMAT\_3
- ◆ text field DOCUMENT\_NO with data Nov\_29\_02
- text field DOCUMENT\_TYPE with data 51
- ◆ RFID Data Field EPC with data 30740242204031400000001C
- ◆ text field EPC\_TYPE with data SGTIN-96
- text field EPC\_URN with data urn:epc:tag:sgtin-96:3.0037000.065733.28
- ◆ text field EPC\_URN\_NO\_HEADER with data 3.0037000.065733.28
- text field GTIN with data 00037000657330
- text field PRODUCT with data RFID\_MAT1
- ◆ text field PRODUCT\_DESCRIPTION with data RFID Material 1.

DOCUMENT\_NO: Nov\_29\_02

DOCUMENT\_TYPE: 51

EPC\_TYPE: SGTIN-96

EPC\_URN:

urn:epc:tag:sgtin-96:3.0037000.065733.28

EPC\_URN\_NO\_HEADER: 3.0037000.065733.28

GTIN: 00037000657330

PRODUCT: RFID\_MAT1

PRODUCT\_DESCRIP: RFID Material 1

Sample Label